

Centripetal Force
INWARD POINTING

- FORCE

measured in Newtons

→ Vector

v_t = Tangential Velocity
Linear velocity
measured in m/s

→ Vector

OBJECTS DESIRED DIRECTION

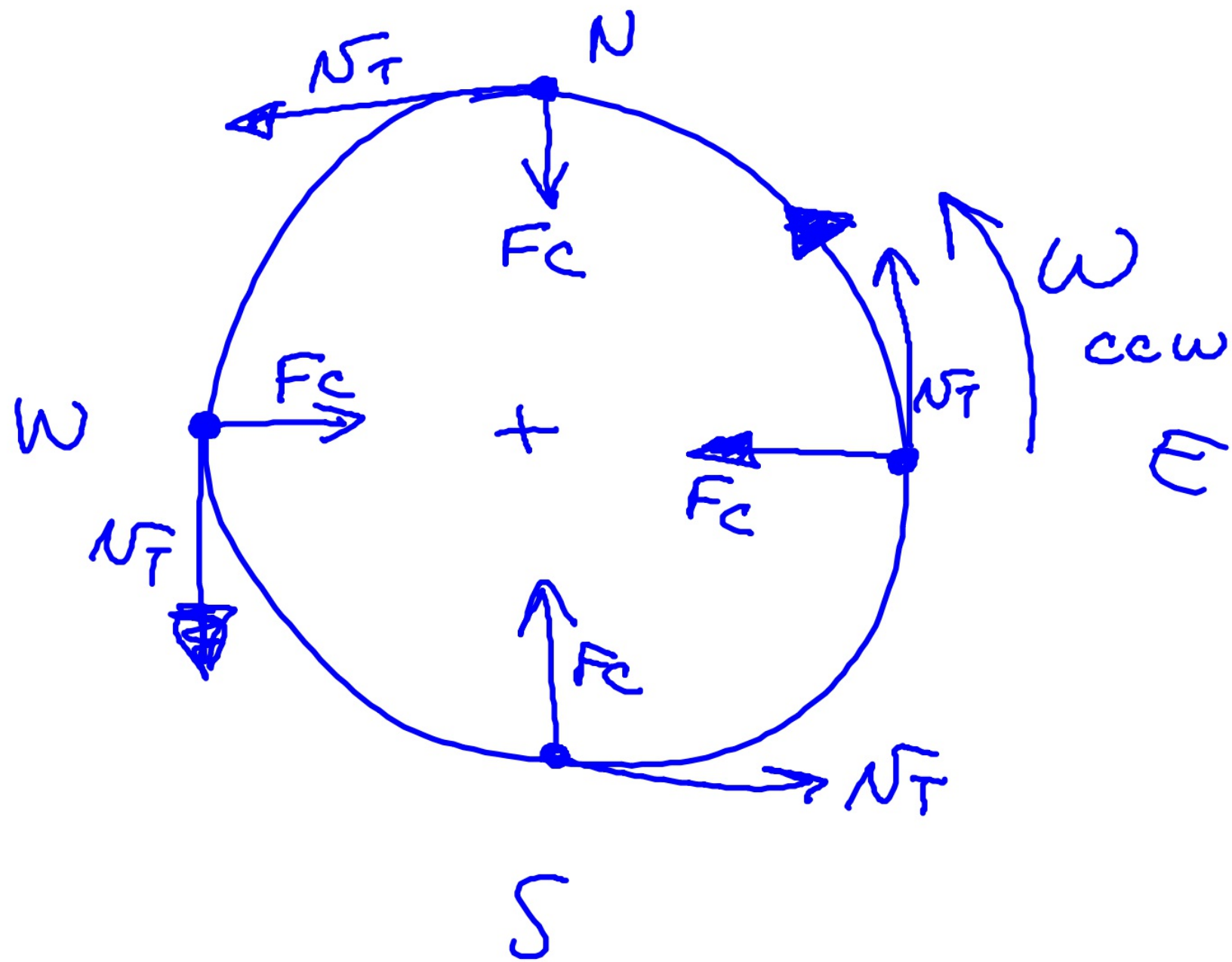
ANGULAR Velocity (ω)
ROTATIONAL velocity

ALSO A VECTOR

DIRECTION OF MOTION

(CW)
(CCW)
CLOCKWISE OR
COUNTERCLOCKWISE

MEASURED IN REVOLUTIONS
PER MINUTE
(RPM)



RADIUS (r) the Distance from Center
to the edge of the circle

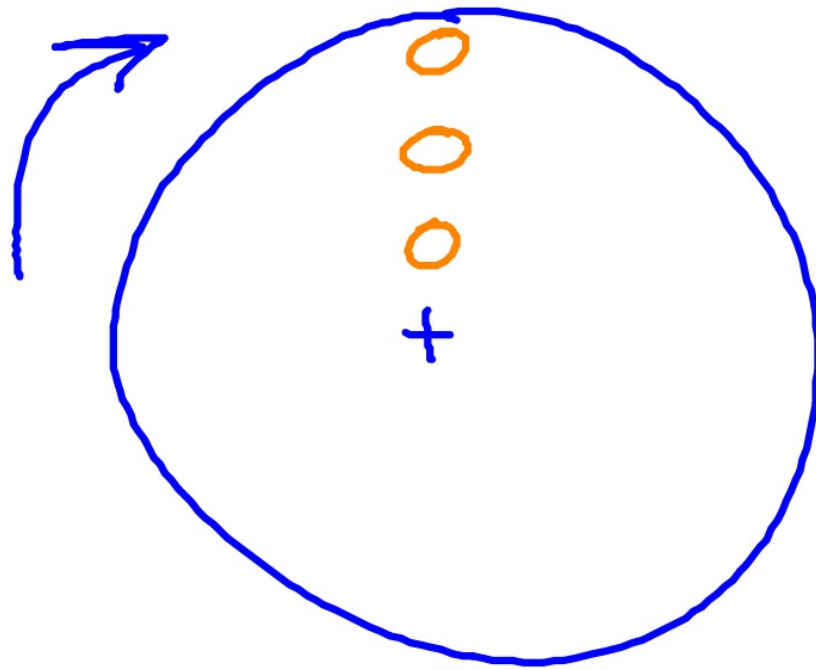
SCALAR
measured in meters

Period (T) SECONDS

The time to MAKE ONE
Revolution

Circumference (c)
MEASURE of the distance
AROUND A CIRCLE

A ROTATING OBJECT
HAS THE SAME
ANGULAR velocity at all
POINTS ON THE object



33 rpm

The tangential velocity
IS NOT CONSTANT ON
A ROTATING OBJECT
it increases with the
RADIUS r

